SBR No.67/23-24
DATED 23/11/2023

Original / Duplicate / Triplicate

EE/ELE/Y/BP. No.....

CONTRACT CERTIFICATE

(For Other Works)

No. 1st & Final bill

Date.....20..Dt.....

Division: Yelahanka Division

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.....

Name of Work: Providing and Installation of Decorative Tusker Street Light Poles and Lights from Tirumala Daba to M S Palya Circle in Ward No 03

Name of Contractor and Full Address: **Sri. Madhusudhan A N (Suraksha Electrical)**

Work Order No: EE(Project)/Ynk Zone/Wo/045/2022-23 , Dated:15/10/2022

Agreement No: EE(Project)/Ynk Zone/AG/36/2022-23 , Dated:15/10/2022

Job Code:003-22-000030

Certified that the measurements were taken by me on 25/7/23 and recorded in pages 260501 to 510
Of measurement Book No. 2606/23-24 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurements were taken by me on 15/07/2023 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)

If Memorandum of Payment **Sub-Division Officer**

1) Total value of work done or supplies made as per account within	1st & Final Bill	23983720:00
2) Deduct amount to be held in reserve being.....percent Rs.		
3) Deduct amount to be held in Balance		
4) Deduct Payment :	ITI-Y.	239837:00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S D No.....	LWC-Y.	239837:00
Amount adjusted towards cash advance recovery of	CBFO-IY.	23984:00
b) Payments cost store or other materials supplied.	CWS-I-Y.	239837:00
Now made recovery of amount creditable to this/other work	SWS-I-Y.	239837:00
Amount paid on this bill Cheque/Cash	IR	8400:00
5) Balance being unpaid value of work done held in reserve	Deductions	991732:00
6) Deduct cash advance made on the office Cash Book Voucher No..... date.....less adjustments		
7) Net amount due to or from contractor		22991988:00
Unadjusted items		
8) Advance to contractor for materials brought to site (as detailed) within value of Governme materials supplied		

by cheque

Contractor's Signature

For M/s. Suraksha Electricals

Received Rs.....(in words)

By Cash and by adjustment of Payment as per memorandum.

Witnesses :

1.

2.

Dated.....Signature of Contractor

(For use in the Office)

P 2415 Reserve fund for TSF committee

23983720:00

22991988:00

991732:00

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated..... 21/11/23

Initials of Officer Making Payment **Executive Engineer**

BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Division

NAME OF WORK:- Providing and Installation of Decorative Tusker Street Light Poles and Lights from Tirumala Daba to M S Palya Circle in Ward No.03

ABSTRACT

RA Bill-01

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
1	Removing and resetting of footpath Slab (Approved arrival Rate)	Sqm	0.00	267.55	0.00	0.00	0.00	0.00	267.55	0.00	0.00	0.00
2	Removing and resetting of Kerb Stone (Approved arrival Rate)	Mtr	0.00	134.34	0.00	0.00	0.00	0.00	134.34	0.00	0.00	0.00
3	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other	Cum	80.93	296.01	23954.30	0.00	0.00	80.93	296.01	23954.30	80.93	23954.30

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
4	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 250 t.km 5 rs /km= 8km = 5*8 = 40	t.km	103.58	45.54	4717.63	0.00	0.00	103.58	45.54	4717.63	103.58	4717.63
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.15, Item No.2.1.4 of PWD SR 2021-22)	Cum	0.00	6746.70	0.00	0.00	0.00	0.00	6746.70	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, 1 No-2.1.3 of PWD SR 2021-22)	Cum	8.09	6548.60	52994.55	0.00	0.00	8.09	6548.60	52994.55	8.09	5294.55

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement &	Cum	53.22	7478.52	398034.63	0.00	0.00	53.22	7478.52	398034.63	53.22	398034.63
8	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22)	Ton	2.27	117639.09	267553.18	0.00	0.00	2.27	117639.09	267553.18	2.27	267553.18

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
9	Providing and Fixing Pre cast covering Slab 100mm thick made out of CC, jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.	Sqm	0.00	2379.45	0.00	0.00	0.00	0.00	2379.45	0.00	0.00	0.00
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete.	Nos	0.00	519.57	0.00	0.00	0.00	0.00	519.57	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
11	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III, P.No.56, I.No.8.10 of PW, PWD SR 2021-22)	Sqm	0.00	87.97	0.00	0.00	0.00	0.00	87.97	0.00	0.00	0.00
12	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.	Nos	63.00	7410.53	466863.68	0.00	0.00	63.00	7410.53	466863.68	63.00	466863.68
	Above 125%	Nos	318.00	7410.53	2356550.01	0.00	0.00	318.00	7410.53	2356550.01	318.00	2356550.01

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amou
13	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.	Nos	50.00	9521.92	476096.05	0.00	0.00	50.00	9521.92	476096.05	50.00	476096.05

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amou
14	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.	Nos	242.00	12730.39	3080755.46	0.00	0.00	242.00	12730.39	3080755.46	242.00	3080755.46

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amou
15	Supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe	Nos	125.00	864.22	108027.66	0.00	0.00	125.00	864.22	108027.66	125.00	108027.66
	Above 125%	Nos	306.00	864.22	264451.71	0.00	0.00	306.00	864.22	264451.71	306.00	264451.71

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
16	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and	Nos	21.00	17305.06 13804.24	363406.23 289868.04	0.00	0.00	21.00	17305.06 13803.24	363406.23 2,89868.04	21.00	363406.23 2,89,868.04

2/3

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
17	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length	Nos	5.00	1241.99	6209.95	0.00	0.00	5.00	1241.99	6209.95	5.00	6209.95
	Above 125%	Nos	16.00	1241.99	19871.84	0.00	0.00	16.00	1241.99	19871.84	16.00	19871.84
18	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Double bracket 2x1.5 Mtr. Length	Nos	0.00	2030.65	0.00	0.00	0.00	0.00	2030.65	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
19	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 25 sqmm	Mtr	3035.00	186.30	565409.83	0.00	0.00	3035.00	186.30	565409.83	3035.00	565409.83
20	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 35 sqmm	Mtr	500.00	232.88	116437.77	0.00	0.00	500.00	232.88	116437.77	500.00	116437.77
21	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct. 25 sqmm to 75 sqmm	Mtr	3535.00	16.04	56697.74	0.00	0.00	3535.00	16.04	56697.74	3535.00	56697.74

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
22	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete (As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtr	2490.00	78.66	195855.89	0.00	0.00	2490.00	78.66	195855.89	2490.00	19585.89
23	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 3C X 1.5Sq.mm	Mtrs	2187.50	56.92	124512.70	0.00	0.00	2187.50	56.92	124512.70	2187.50	12451270
	Above 125%	Mtrs	232.50	56.92	13233.92	0.00	0.00	232.50	56.92	13233.92	232.50	1323392
24	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than .25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs	60.00	346.73	20803.53	0.00	0.00	60.00	346.73	20803.53	60.00	2080353

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
25	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm	Nos	12.00	362.25	4347.02	0.00	0.00	12.00	362.25	4347.02	12.00	4347.02
26	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	830.00	20.70	17182.49	0.00	0.00	830.00	20.70	17182.49	830.00	17182.49
	Above 125%	Nos	332.00	20.70	6873.00	0.00	0.00	332.00	20.70	6873.00	332.00	6873.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
27	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode.The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	Nos	6.00	4295.22	25771.32	0.00	0.00	6.00	4295.22	25771.32	6.00	25771.32
28	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtr	48.00	263.92	12668.08	0.00	0.00	48.00	263.92	12668.08	48.00	12668.08

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
29	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete16SWG	Sqmm	210000.00	0.36	76596.66	0.00	0.00	210000.00	0.36	76596.66	210000.00	76596.66
30	Supplying and fixing Moulded Case Circuit Breaker (MCCB)over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)100Amps 25kA.	Nos	6.00	6623.95	39743.67	0.00	0.00	6.00	6623.95	39743.67	6.00	39743.67

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurenient			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
31	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	342.00	181.12	61943.39	0.00	0.00	342.00	181.12	61943.39	342.00	6194339
32	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm Copper strip	Mtr	30.00	522.67	15680.13	0.00	0.00	30.00	522.67	15680.13	30.00	15680.13

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
33	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%, efficacy >80 lumen per watt,life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%,Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by ABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard	Nos	83.00	263.92	21905.23	0.00	0.00	83.00	263.92	21905.23	83.00	21905.23
34	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos	18.00	234.95	4229.02	0.00	0.00	18.00	234.95	4229.02	18.00	4229.02

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurenient			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
35	Supplying and fixing of Spiral Earth Electrodes as per standard technical specification as per ESCOM.	Each	83.00	507.77	42144.57	0.00	0.00	83.00	507.77	42144.57	83.00	4214457
36	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail I Beam of sizes 200x100mm, 175x90 mm, 125x100 mm. Fabricates poles tubular poles in pits of 1.8 mtr Depth, Aligning, Refilling with soil and ramming as approved drawing (Releasing of LED Lights=90% of erction Charges Rs334x90%=300.6)	Each	100.00	311.12	31111.85	0.00	0.00	100.00	311.12	31111.85	100.00	3111185
37	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. (Releasing of LED Lights=90% of erction Charges Rs 175x90%=157.50)	Each	100.00	162.49	16248.94	0.00	0.00	100.00	162.49	16248.94	100.00	1624894
38	Hiring of 35 tons capacity Crane for releasing and refixing of High Mast	Hrs	100.00	567.18	56718.00	0.00	0.00	100.00	567.18	56718.00	100.00	56718.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
39	Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4)	Nos	6.00	71186.71	427120.25	0.00	0.00	6.00	71186.71	427120.25	6.00	42712025

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurenient			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
40	Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4)	Nos	50.00	30842.74	1542137.22	0.00	0.00	50.00	30842.74	1542137.22	50.00	1542137.22

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
41	Fabricating, Supplying and errection of decorative bent type Tuskar Conical Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to with stand the wind speed. The total height of the pole 9 mtrs. The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom 178 mm,at 9 mtrs height 70 mm 3mm thick and one number of 3 mtr height and 139.7 mm dia perforated pole having colour changing LED Fixture, inside as suitable to the Drawing and picture. The base plate size of 350mm x 350mm x 18 mm for poles and a common baseplate of	Nos	83.00	120705.88	10018587.78	0.00	0.00	83.00	120705.88	10018587.78	83.00	10018587.78
42	Laying of UG Cables by trenchless technology by adopting horizontal boring & Drawing of cable including preparation at site With HDPE Pipe i) Normal soil 5/6" bore size	Nos	150.00	877.68	131651.62	0.00	0.00	150.00	877.68	131651.62	150.00	131651.62

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
	EIRL							0.00				
E1	Aerial Bunched Cable (ABC) 1.1 kV, LT Aerial Bunched Cable, XLPE insulation confirming to IS-14255: 1995 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral) (P No-13, I No-B 42.07, Bescom SR, 2021-22)	Km	1.00	205395.75	205395.75	0.00	0.00	1.00	205395.75	205395.75	1.00	205395.75
E2	LABOUR for Aerial Bunched Conductor & Accessories Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control) (P No-10, I No-B 34.04, Bescom SR 2021-22)	Km	1.00	26743.37	26743.37	0.00	0.00	1.00	26743.37	26743.37	1.00	26743.37
E3	Supply of Suspension Clamp suitable for insulated Messsenger wire of size 25 to 95 Sqmm (P No-13, I No-43.01, Bescom SR 2021-22)	Nos	25.00	188.37	4709.25	0.00	0.00	25.00	188.37	4709.25	25.00	4709.25
E4	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connection (P No-1, I No-43.12, Bescom SR 2021-22)	Nos	42.00	154.22	6477.03	0.00	0.00	42.00	154.22	6477.03	42.00	6477.03

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
E5	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of Pole Clamp and Eye Hook) (P No-13, 1 No-43.16, Bescom SR 2021-22)	Nos	4.00	151.11	604.44	0.00	0.00	4.00	151.11	604.44	4.00	604.44
E6	Erection of Suspension Clamp - 25 to 95 Sqmm bare messenger (P No-13, 1 No-34.06, Bescom SR 2021-22)	Nos	25.00	70.38	1759.50	0.00	0.00	25.00	70.38	1759.50	25.00	1759.50
E7	Installation of Insulation piercing connector for Main to Street Light Main : 16-95 Sqmm, Tap: 1.5-10 Sqmm (EP95) (P No-13, 1 No-34.12, Bescom SR 2021-22)	Nos	42.00	301.19	12649.77	0.00	0.00	42.00	301.19	12649.77	42.00	12649.77
E8	Fixing of Dead End Clamp (P No-13, 1 No-B 34.02, Bescom SR 2021-22)	Nos	4.00	301.19	1204.74	0.00	0.00	4.00	301.19	1204.74	4.00	1204.74

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
E9	Fabricating, Supplying and errection of decorative Zig-Zag bent type Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to with stand the wind speed. The total height of the pole 7 mtrs towards road and 5 Mtrs footpath.between the pole V shaped MS/any decorativ laser cutting jolly work The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom square pipr of 175x175x4mmx2 Mtrs length and above 2 mtrs a dia of 76.1x3.25mmx5Mtrs and 3	Nos	6.00	92891.25	557347.50	0.00	0.00	6.00	92891.25	557347.50	6.00	557347.50
	Total				**22351989.84**					**22351989.84**		**22351989.84**
	GST 18%For Item No-01 to 38 and 42				**1718505.59**					**1718505.59**		**1718505.59**
	Grand Total				**24070495.43**					**24070495.43**		**24070495.43**

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP.

Bangalore NEWZEN CONSULTANT PMC

Assistant Engineer
Yelahanka Division (ELE)
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Division (ELE)
BBMP Bangalore

Sl No	Description of Work	Unit	As per Shedule -B			Previous		Present Measurement *			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
E9	Fabricating, Supplying and errection of decorative Zig-Zag bent type Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications suitable to with stand the wind speed. The total height of the pole 7 mtrs towards road and 5 Mtrs footpath between the pole V shaped MS/any decorativ laser cutting jolly work The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom square pipr of 175x175x4mmx2 Mtrs length and above 2 mtrs a dia of 76.1x3.25mmx5Mtrs and 3	Nos	6.00	92891.25	557347.50	0.00	0.00	6.00	92891.25	557347.50	6.00	557347.50
	Total				**22351989.84**					**22351989.84**		**22351989.84**
	GST 18%For Item No-01 to 38 and 42				**1718505.59**					**1718505.59**		**1718505.59**
	Grand Total				**24070495.43**					**24070495.43**		**24070495.43**

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NEWZEN CONSULTANT PMC Bangalore

Total 22278451.65
GST 18% 1705268.71
Grand total 23983720.36

Assistant Engineer
Yelahanka Division (ELE)
BBMP Bangalore

Total 22278451.65
GST 18% 1705268.71
Grand total 23983720.36

Asst. Executive Engineer,
Yelahanka Division (ELE)
BBMP Bangalore